	Application No.	Applicant(s)
Notice of Allowability	10/827,528	SANYAL ET AL.
	Examiner	Art Unit	
	Phillip H. Nguyen	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *an amendment filed 12/12/2008*.

2. ☒ The allowed claim(s) is/are *1,6-8,10,11,16-18 and 20-23*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

         International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

       Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date <u>05102005</u>

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   Claims 1, 6-8, 10, 11, 16-18, and 20-23 are pending in this application with

claims 1, 11, and 21 amended and claims 2-5, 9, 12-15, and 19 cancelled.

Examiner's Amendment

2.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Keith Townsend (Reg. No. 40,358) on 2/4/2009. The Examiner's amendment is

necessitated to further clarify the claimed invention.

Claims 1, 11, and 21 have been amended below.

Claims 2-4 and 9 have been cancelled.

1.   (Currently Amended) A method to create data transformation routines for binary

data to

transform said data from a source format to a target format, the method comprising the

steps of:

a) generating a source model of a source format element;

b) generating a target model of a target format element;

c) generating a mapping between said source model and said target model, wherein the mapping accounts for differences in endianness between the source and target models, wherein target models generate a plurality of target elements and the mapping generated between the source model and said plurality of target models, and wherein the source models generate a plurality of target elements and the mapping generated between said plurality of source models and said target model; and

d) generating a transformation routine based on said mapping for extracting data from said source element and depositing said data in said target element, wherein the transformation routine is arranged to transform data in software code instructions from a source format code to a target format code and the transformation routine are generated in said target format code, and wherein the transformation routine is associated with a template providing a set of target format instruction semantically equivalent to said identified source instruction.

11.   (Currently Amended) A computer apparatus including a binary translator to create transformation routines to transform binary data from a source format to a target format, the computer apparatus comprising:

a processor to implement:

a) a source model of a source element;

b) a target model of a target element;

c) a mapping between said source model and said target model, wherein the mapping accounts for differences in endianness between the source and target models, <u>wherein target models generate a plurality of target elements and the mapping generated between the source model and said plurality of target models, and wherein the source models generate a plurality of target elements and the mapping generated between said plurality of source models and said target model</u>; and

d) a routine generator for generating a transformation routine based on said mapping for extracting data from said source element and depositing said data in the target element, <u>wherein the transformation routine is arranged to transform data in software code instructions from a source format code to a target format code and the transformation routine are generated in said target format code, and wherein the transformation routine is associated with a template providing a set of target format instruction semantically equivalent to said identified source instruction</u>.

21.   (Currently Amended) A computer program embedded in a <u>physical memory</u> to transform <u>binary</u> data from a source instruction to a target instruction, in accordance with the method of claim 1.

Examiner's Statement of Reason(s) for Allowance

3.   The following is an examiner's statement of reasons for allowance:

The prior art of record i.e. Hellman et al taken alone or in combination fails to teach or

reasonably suggests in combination with other claimed limitations *wherein the mapping*

accounts for differences in endianness between the source and target models as recited

in independent claim 1. Similar concepts are found in other independent claims 11 and

21.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Correspondence Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phillip H. Nguyen whose telephone number is (571)

270-1070. The examiner can normally be reached on Monday - Thursday 10:00 AM -

3:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wei Y. Zhen can be reached on (571) 272-3708. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PN
2/5/2009
/Wei Y Zhen/
Supervisory Patent Examiner, Art Unit 2191